VAYNSHTEYN, B.Z., inzh.

Membrane actuators of traction devices for the rolling stock
of electric railroads. Vest. TSNII MPS 25 no.1:9-13 '66.
(MIRA 19:2)

KHEYFEITS, Ye.B., inzh.; VAYNSHTEYN, B.Z., inzh.; GUDAVAD7E, G.G., inzh.; ZHITKOV, N.Ya., inzh.

New design of a reversing switch for electric rolling stock and diesel locomotives. Elektrotekhnika 35 no.11:11-12 N '64. (MIRA 18:6)

VAYNSHTEYN, B.Z. (Tbilisi); VOL'F, A.M., kand. tekhn. nauk

Experimental study of the heating and cooling of the traction motors of main line electric locomotives. Elektrichestve (MIRA 17:12) no.10:85-86 0 164.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodo-rozhnogo transporta, Ural'skoye otdeleniye (for Vol'f).

(MIRA 17:2)

VAYNSHTEYN, B.Z., inzh. "Electric traction apparatus" by N.M. Balalov and B.P. Petrov. Reviewed by B.Z. Vainshtein. Elektrotekhnika 35 no.1:60-62

Ja 164.

CHUMBURIDZE, I.P. (Tbilisi); VAYNSHTEYN, B.Z. (Tbilisi)

Voltage unification in the circuit control of the rolling stock. Zhel.-dor.transp. 45 no.12:53-54 D '63. (MIRA 17:2)

1. Direktor Tbilisskogo nauchno-issledovatel'skogo elektrotekhnicheskogo instituta (for Chumburidze). 2. Rukovoditel' laboratorii Tbilisskogo nauchno-issledovatel'skogo elektrotekhnicheskogo instituta (for Vaynshteyn).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859120002-3"

AMIRAGOV, E.M.; VAYNSHTEYN, B.Z.

Diaphragm drives for the apparatus of the series VL8 electric locomotive. Elek. i tepl. tiaga 7 no.9:9-10 S *63. (MIRA 16:10)

1. Glavnyy konstruktor Tbilisskogo elektrovozostroitel'nogo zavoda im. V.I.Lenina (for Amiragov). 2. Rukovoditel' laboratorii Nauchno-issledovatel'skogo elektrotekhnicheskogo instituta Soveta narodnogo khozyaystva Gruzinskoy SSR (for Vaynshteyn).

MKHEIDZE, V.N., inzh.; VAYNSHTEYN, B.Z., inzh.

Means for increasing the operational reliability of electrical equipment. Vest. ekeltroprom. 34 no.3:50-51 Mr '63.

(Electric industries—Quality control)

(Electric machinery)

BERDZENISHVILI, B.G.; VAYNSHTEYN, B.Z., ZHITKOV, N.Ya.; KUCHAVA, V.A.

Lightened pantograph for high-speed rolling stock. Elek. i tepl. tiaga 7 no.3:6-7 Mr 163. (MIRA 16:6)

1. Sotrudniki otdela elektricheskoy tyagi Nauchno-issledovatel skogo elektrotekhnicheskogo instituta Soveta narodnogo Khozyaystva Gruzinskoy SSR.

(Electric railroads-Wires and wiring)

BELYAYEV, Igor' Aleksandrovich; VAYNSHTEYN, Boris Zinov'yevich; VETROV, N.I., inzh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; KHITROVA, N.A., tekhn. red.

[Mechanization of work and automation of systems in contacnetwork maintenance] Mekhanizatsiia rabot i avtomatizatsiia ustroistv na distantsiiakh kontaktnoi seti. Moskva, Transzheldorizdat, 1963. 84 p. (MIRA 16:5) (Electric railroads—Wires and wiring)

VAYNSHTEYN, B.Z., inzh.

"High-voltage switch drives" by I.G.Koroviakovskii. Reviewed by B.Z.Vainshtenin. Elek.sta. 34 no.2:92 F *63. (MIRA 16:4) (Electric switchgear) (Koroviakovskii, I.G.)

VAYNSHTEYN, B.Z., inzh.; GUDAVADZE, G.G., inzh.; KHEYFITS, Ye.B., inzh.

Use of diaphrem drives in electric traction machinery. Vest. elektroprom. 33 no.9:37-39 S 162. (MIRA 15:10) (Electric railway motors—Equipment and supplies)

VAYNSHTEYN, B.Z.

Thirtieth anniversary of the electrification of railroad transportation in the Suram Pass. Elektrichestvo no.8:83-87

Ag 162.

(Suram Range-Electric railroads)

VAYNSHTEYN, B.Z., inzh.; GUDAVADZE, G.G., inzh.; KHEYFITS, Ye.B., inzh.

Design and calculation of the group controllers of the rolling stock. Vest. TSNII MPS 21 no.1:15-19 '62. (MIRA 15:2)

1. Nauchno-issledovatel skiy elektrotekhnicheskiy institut, g. Tbilisi.

(Electric controllers)

Study of the commutation of an electric traction machine with a laminated yoke operating with a pulsating potential. Vest. elektroprom.

(MIRA 15:1)
31 no.10:13-15 0 '60.

(Electric railway motors) (Electric locomotives)

VAYNSHTEYN, B.Z., inzh.

Concerning the types of relay equipment used in signaling and automatic control systems. Energetik 9 no.11:10-11 K '61.

(Automatic control) (Electric relays)

VAYNSHTEYN, B.Z., inzh.

In regard to V.G. Vasil'ev's article "Decreasing the number of elements in lead-acid storage batteries at electric power plants." Elek. sta. 32 no. 5:93 My '61. (MIRA 14:5) (Storage batteries)

(Electric power plants—Equipment and supplies)

(Vasil'ev, V.G.)

Concerning the magnitude of the voltage in control circuits of rolling stock. Vest. elektroprom. 31 no.11;31-32 N '60.

(MIRA 13;12)

(Locomotives)

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VAYNSHTKYN, B.Z.

How to prevent damages to frequency triplers. Elek.1 tepl.tiaga 4 no.2:26 F '60. (MIRA 13:6)

1. Bukovoditel' laboratorii Nauchno-issledovatel'skogo elektrotekhnicheskogo instituta sovnarkhoza Gruzinskoy SSR, g. Tbilisi. (Frequency changers)

VAYNSHTEYN, B.Z.

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Valuable textbook pertaining to the safety of working conditions. Prom.energ. 15 no.3:61-62 Mr '60. (MIRA 13:6)

1. Nauchno-issledovatel'skiy elektrotekhnicheskiy institut Soveta narodnogo khozyaystva GSSR. (Electric engineering--Safety measures)

VAYNSHTEYN, B.Z., inzh.

Measures for improving the operation of the UM frequency tripler. Prom.energ. 15 no.2:27 F '60. (MIRA 13:5)
(Electric railroads--Equipment and supplies)
(Frequency changers)

VAYNSHTEYN, B.Z., inzh.

Remote control of pole switches. Elek.i tepl. tiaga 5 no.10:22-23 0 fol. (MIRA 14:10)

(Remote control)
(Electric railroads—Switches)

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CIA-RDP86-00513R001859120002-3

ACC NR

L 9657-66 AP6000279

SOURCE CODE: UR/0232/65/000/010/0058/0061

AUTHOR: Vaynshteyn, B.Z. (Engineer)

ORG: None

TITLE: Repair and quality of electric equipment of electric locomotives

SOURCE: Zheleznodorozhnyy transport, no. 10, 1965, 58-61

TOPIC TAGS: locomotive, electric equipment,

reliability engineering

ABSTRACT: The author reports that in 1963 there was an incidence of equipment failure at the rate of 2.29 per one million kilometers of d-c electric locomotive runs, and 8.45 per one million km of a-c locomotive runs. The economic factors of the unreliability of equipment are discussed, the need for taking the repairability of equipment into consideration is stressed, and it is pointed out that the design of equipment which is not only reliable, but simple to install and to repair, yields considerable savings since increased repairability more than compensates for the extra costs involved in the initial outlay. A comparison is made between a-c locomotive and d-c locomotive equipment, and the components most likely to fail are discussed, as well as some of the causes of their failure. It is noted in conclusion that an analysis of the statistical data of accidents due to the electrical equipment of a-c and d-c locomotives, together with the development of a methodology of full-scale tests and speeded up studies of models of new equipment under difficult operating conditions will make it possible to develop equipment with the necessary degree of reliability and repairability. It is suggested that this

Card 1/9

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	SUB CODE: 09,13 / SUBM DATE: None					
•	Card 2/2					

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VAYNSHTEYN, D.M., inzh.; DVOROKOVSKIY, G.I., inzh.; MAKIN, N.P., inzh.

Using polyethylene pipes for atuomatic control systems. Mont.i
spets.rab. v stroi. 24 no.12:11-12 D '62. (MIRA 15:12)
(Pipe, Plastic) (Automatic control)

VAYNSHTEYN, Daniil Maksovich; ARKHIPOV, V.G., inzh., retsenzent; PESOSHNOV, M.N., inzh., retsenzent; DUGINA, N.A., tekhn. red.

[Installation of regulatory and automatic control devices]
Montazh priborov kontrolia i avtomaticheskogo regulirovaniia;
spravochnik. Moskva, Mashgiz, 1962. 302 p. (MIRA 15:12)
(Automatic control)

BANIT, F.G., inzhener; VAYESHTEYN, D.M.: GOL'DFARB, Yu.M., inzhener.

Radioactive slurry gauge for rotary kilns. TSement 22 no.5:13-15
S-0 '56. (MIRA 10:1)
(Gamma rays--Industrial applications) (Kilns, Rotary)

VAYNSHTEYN, D. Ya 117 PHASE I BOOK EXPLOITATION SOV/5411 Konferentsiya po fiziko-khimicheskim osnovam proizvodstva stali. 5th, Moscow, 1959. Fiziko-khimicheskiye osnovy proizvodstva stali; trudy konferentsii (Physicochemical Bases of Steel Making; Transactions of the Fifth Conference on the Physicochemical Bases of Steelmaking) Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted. 3,700 copies printed. Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova. Responsible Ed.: A.M. Samarin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg. Tech. Ed.: V. V. Mikhaylova. Card 1/16

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859120002-3

SOV/5411 Physicochemical Bases of (Cont.) PURPOSE: This collection of articles is intended for engineers and technicians of metallurgical and machine-building plants, senior students of schools of higher education, staff members of design bureaus and planning institutes, and scientific research workers. COVERAGE: The collection contains reports presented at the fifth annual convention devoted to the review of the physicochemical bases of the steelmaking process. These reports deal with problems of the mechanism and kinetics of reactions taking place in the molten metal in steelmaking furnaces. The following are also discussed: problems involved in the production of alloyed steel, the structure of the ingot, the mechanism of solidification, and the converter steelmaking process. The articles contain conclusions drawn from the results of experimental studies, and are accompanied by references of which most are Soviet. Card 2/16

hysicochemical Bases of (Cont.)	SOV/5411
egime and the Gas Content in Metal	94
ovolotskiy, D. Ya., I.A. Lubenets, M.I. Kol hteyn, and A.N. Morozov. Desiliconizing W	
on Open-Hearth Furnaces	99
halimov, A.G., and A.K. Petrov. Investigates of Treating the Molten Electric Steel by Slumina Slag	
[The investigation was conducted under the Voinov, Candidate of Technical Sciences, w	guidance of S.G.
tion of staff members of TsNIIChM (Central search Institute of Ferrous Metallurgy) A. date of Technical Sciences, Ya. M. Bokshita	I. Osipov, Candi-
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VAYNSHTEYN, E.

Improve the disbursement operation of local budgets. Fin. SSSR
18 no.1:51-55 Ja '57. (MLRA 10:2)

(Finance)

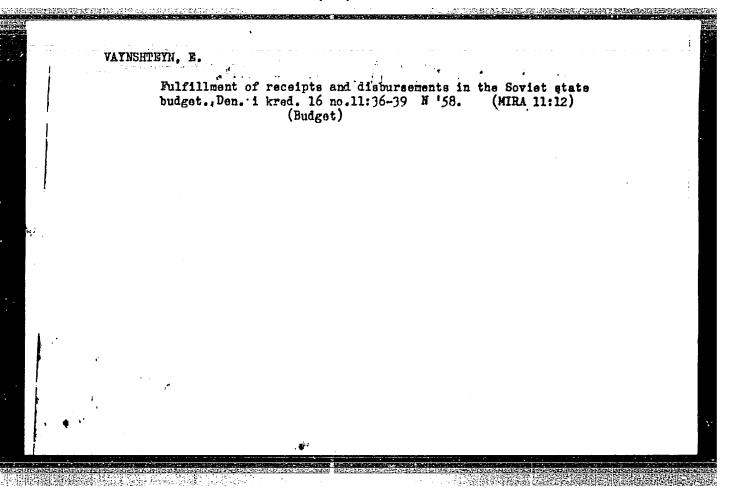
VAYNSHTEYN, B.

"Collection of accounting and operational exercises in the State
Bank" by V. Shchelokov. Reviewed by E. Vainshtein. Den. 1 kred.

16 no.5:93-95 My '58.

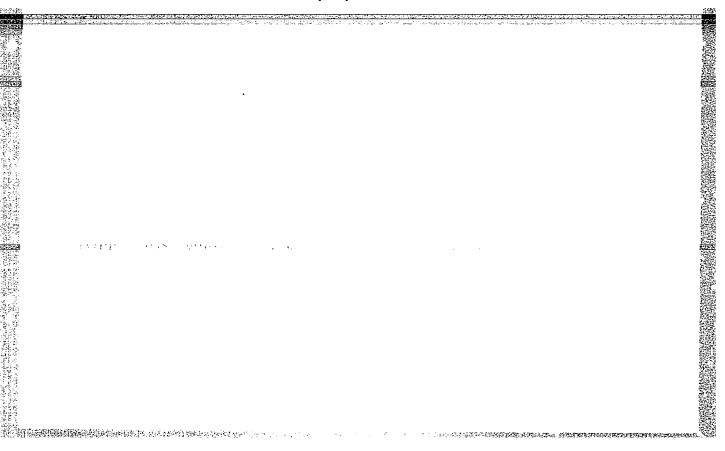
(Banks and banking—Accounting)

(Shchelokov, V.)



A question that deserves attention. Fin. SSSR 19 no.10:42-47 (MIRA 11:11)

(Odessa Province--Finance)



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nd-shells. The width of the Dirbidden zone E was determined by measuring the energy gap between the short wave edge of the emission and the start of the absorption of the rare earth element in the compounds, which in this case coincided with the inflection point of the absorption curve at half the height of the main as a maximum. E for the exide was about 1 ev. and in the hexaboride it was near 0

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859120002-3 / and never exceeded 0.1 ev. Orig. art. has: I figure

L 04603-67 EWT(1)/EWP(e)/EWT(m)/T/EWP(t)/ETI IJP(c) JD/GG/AT/WH ACC NR: AP6033819 (N) SOURCE CODE: UR/0289/66/000/002/0051/0058 AUTHOR: Tsukerman, V. G.; Lyubin, V. M.; Vaynshteyn, E. Ye.; Fedorova, G. A.
ORG: Institute of Inorganic Chemistry, Siberian Department, AN SSSR, Novosibirsk (Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR) TITLE: Photoelectric property of the selenium-arsenic-thallium semiconductor films
in the x-ray spectral region \mathcal{N} \mathcal{N} \mathcal{N} SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1966, 51-58
TOPIC TAGS: semiconductor film, arsenic selenide, thallium, arsenic photoconductive film, x ray photography, TV tube, photoconductivity of amorphous abstract: The effect of thallium addition on the photoconductivity of amorphous selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively selenium-arsenic semiconductor films, 0.3—7 µ thick, has been studied extensively semiconductor films, 0.3—7 µ thick, has been studied extensively semiconductor films, 0.3—7 µ t
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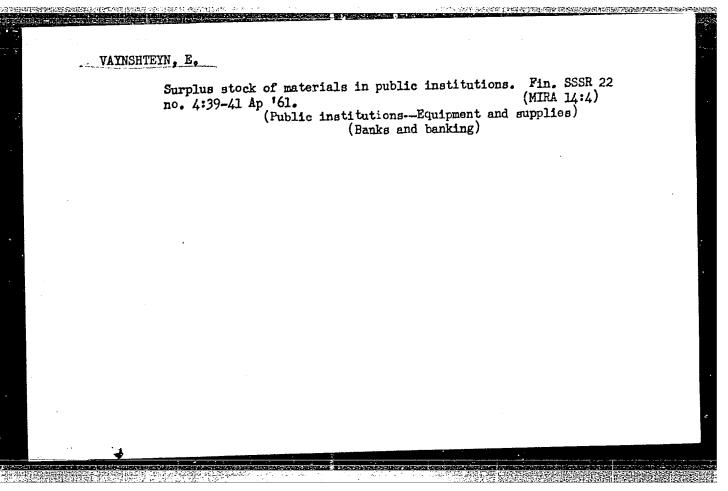
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ACC NR: AP6033819

Tl₂Se·As₂Se₃ films versus thickness and preparation technique, x-ray dosimetric and volt-ampere characteristics, kinetics and spectral distribution in the 0.5-1.5 Å range of x-ray conductivity of the films were determined, as well as the quantum yield of the photoconductive effect and the energy of formation of a single electronhole pair. A vidicon-type camera tube, photoconductive in the visible and x-ray spectral regions, was constructed with a Tl₂Se As₂Se₃ film deposited on a beryllium face plate as a target. The first experiments with such a vidicon tube showed a short rise time (of the order of tenths of a second) of the system and the feasibility of visualization of the x-ray pictures and of measurement of the radiation intensity in different areas of the target. Orig. art. has: 8 figures and 2 tables.

SUB CODE: 11/ SUBM DATE: 30Ju165/ ORIG REF: 017/ ATD PRESS:

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VAYNSHTEYN, E.; KHATS'KO, Ye.

Practical training of students in State Bank branches. Den. 1
kred. 18 no.10:57-63 0 '60.

(Finance--Study and teaching)

(Banks and banking)

BERLIN, A.A.; VAYNSHTEYN, E.F.; CHERKASHIN, M.I.; MOSHKOVSKIY, Yu.Sh.

Polymers with a conjugate bond system in macromolecular chains. Part 32: Preparation and properties of 1-polyhexyne. Vysokom.soed. 5 no.9: 1354-1359 S '63. (MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR.

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SOT/1700	•	-Union copy)	8	Miltorial Board: G.S. Landsberg, Academician, (Resp. Ed.); B.S. Reportari, Doctor of Flysical and Michemitical Statemers: I.L. Pabelinsky, Dottor of Flysical and Michemitical Statemers: V.A. Pabritaky, Dottor of Flysical and Michemitical Statemers: V.A. Entisky, Candidate of Flysical Sciences; S.M. Klimovikay, Gandidate of Flysical and Michemical Sciences; M.X. Klimovikay, Gandidate of Flysical and Michemical Sciences; V.S. Miltymobius (Backlate, Doctor of Flysical and Michemical Sciences; V.S. Miltymobius (Backlate, Doctor of Flysical and Michemical Sciences; V.S. Miltymobius	ne in	studies onfer- it by	alectromagnetic radiation, physicochemical methods for controlling statements production, physicochemical nethodos for controlling training products and spectrometers, and spectrometers and spectrometers and the controlling theory, spectrum and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of loctopes, tables, and atlants of spectral determination of the states of spectral lines, spark spectral determinative.	ats in and	SOV/1700	02.1	Eopystyanskiy, A.A. The Vertical Sun Telescope and the Small- asse biffraction Spectrograph of High Resolving Fower at the Theorekers astronmatcheskays observatoriys (L'yow Observatory)133	elons 125	roving 129	233	`	•	
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VATUSHTEYN, Eduard Grigor'yevich; YAMPOL'SKIY, Moisey Markovich;

KORNEYDVA, R., red.; LEBEDEV, A., tekhn.red.

[Issuing credit for fixed assets] Kreditovenie zatrat v

osnovnys fondy. Moskva, Gosfinizdat, 1960. 78 p.

(Credit)

(MIRA 13:7)

VAINSHTEYN, Eduard Grigor'yevich; KRAMAROVSKIY, D.

[Collection of problems in banking calculations] Sbornik zadach po bankovskim vychisleniiam. Moskva, Gosizdat, 1958. 79 p.

(Banks and banking--Accounting)

(Banks and banking--Accounting)

VAYNSHTEYN, B.K., doktor fiz.-mat.neuk

Problem of atomic structure of biological molecules. Vest.AN SSSA
30 no.12:20-26 D 60. (MIRA 13:12)
(Biochemistry) (Atoms)

VayNEHTEYN, E.O.

USSR/ Analytical Chemistry. Analysis of Inorganic G-2 Substances.

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27141.

Author : E.O. Vaynshteyn, V.V. Korolev.

Title : Spectral Determination of Sodium and Potassium

in Silicate Rocks.

Orig Pub: Zh. analit. khimii, 1956, 11, No. 5, 627 - 633.

Abstract: The sample is mixed with LigCog, CuO and charcoal

powder in the ratio of 1:0.5:1:1.5 and packed in the carbon electrode. The spectra are excited in an alternating current arc at 5 a and photographed with the spectrograph ISP-51 on "Infrachrom-840" plates. The analytical lines are: Na - 8194, 8183; K - 7664, 7696, and Li-8126 A. The graphs are plotted on co-ordinates \triangle S and log0; in case of concentration greater

Card 1/2

USSR/ Analytical Chemistry. Analysis of Inorganic G-2 Substances.

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27141.

than 8%, they are plotted on co-ordinates line width and logC. The width of a line is determined as the difference between two readings on the barrel of the micrometric screw of the photometer corresponding to two points of the line, the blackening of which is equal to the blackening of the comparison line. The error of the analysis does not depend on the gross composition of samples and is 4 to 5%.

Card 2/2

VAYNSHTEYN, E.S.; CHERNOSVITOV, Yu.L., nauchnyy red.; NEMANOVA, G.F., red. 1zd-va; BYKOVA, V.V., tekhn. red.

[Industry's requirements as to quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos. nauchno-tekhn. izd-vo litry po geol. i okhrane nedr. No.48. [Natural colors (mineral pigments)] Prirodnoe krasochnoe syr'e (Zemlianye pigmenty). Nauchn. red. IU.L. Chernosvitov. 1961. 30 p. (MIRA 14:11)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Pigments)

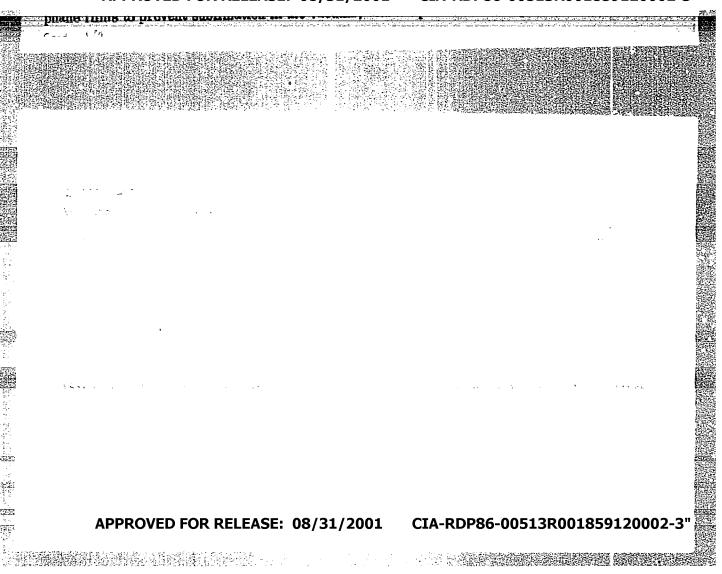
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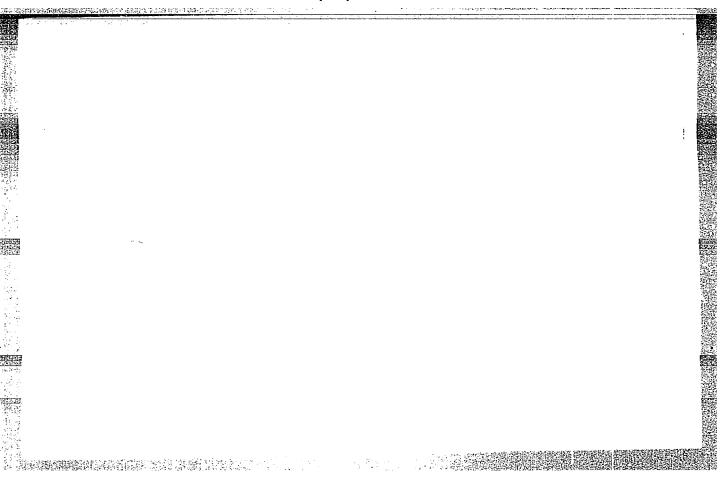
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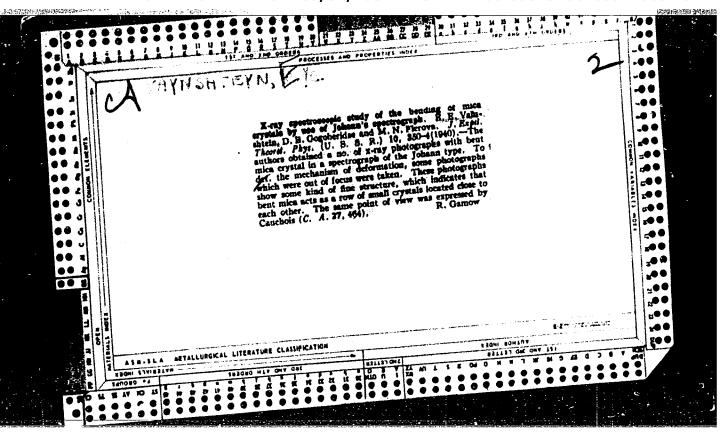
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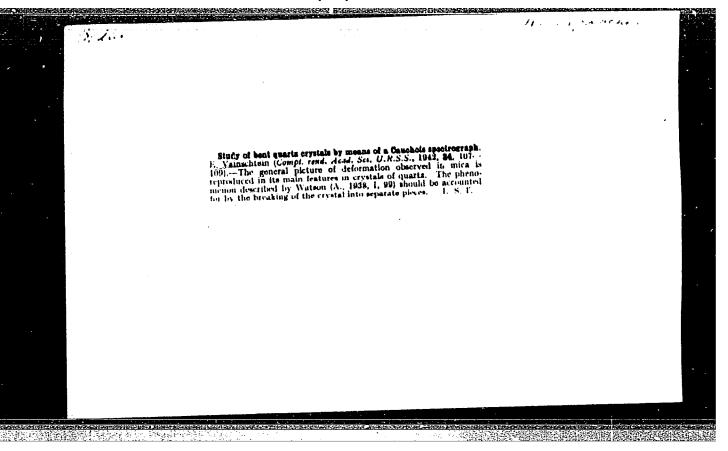
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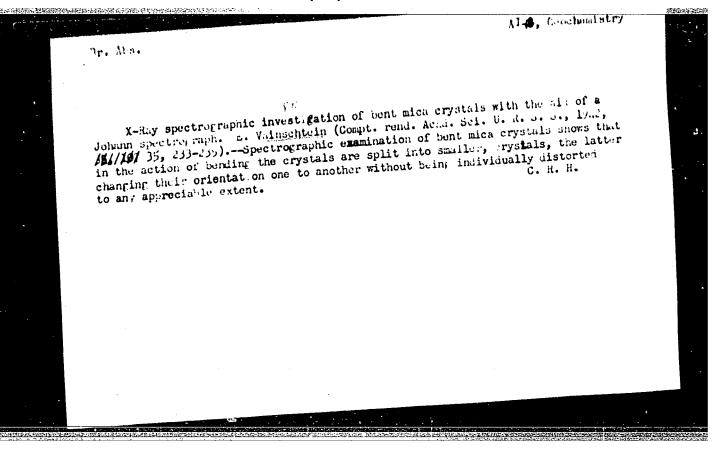
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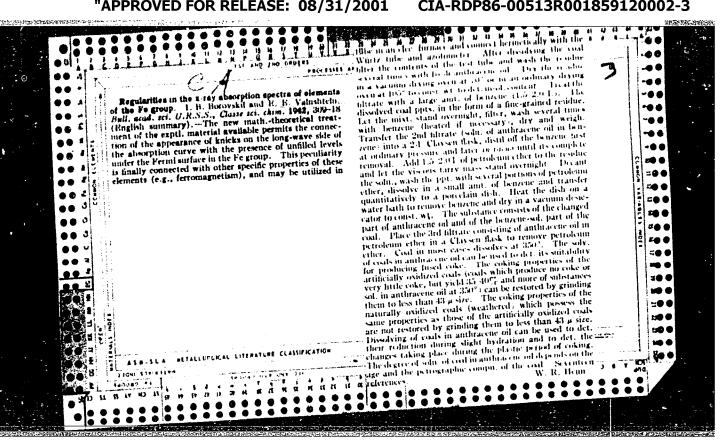


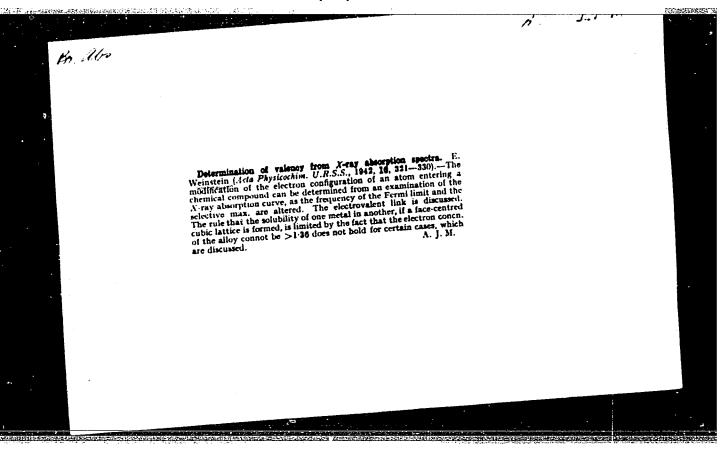


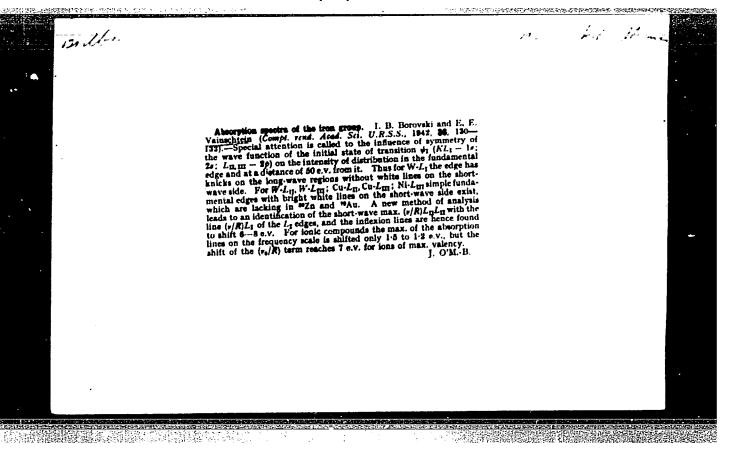


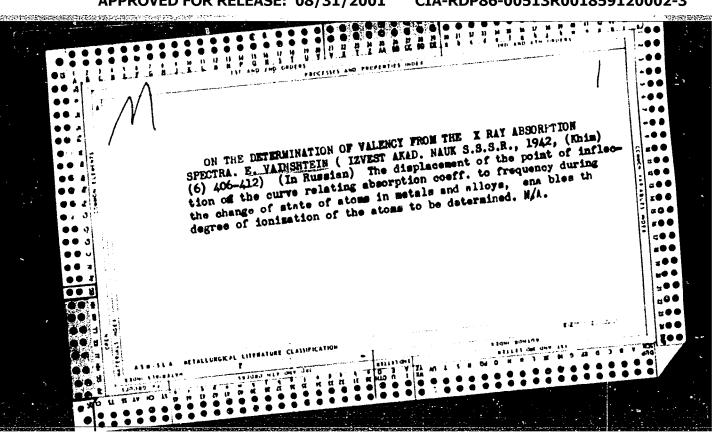


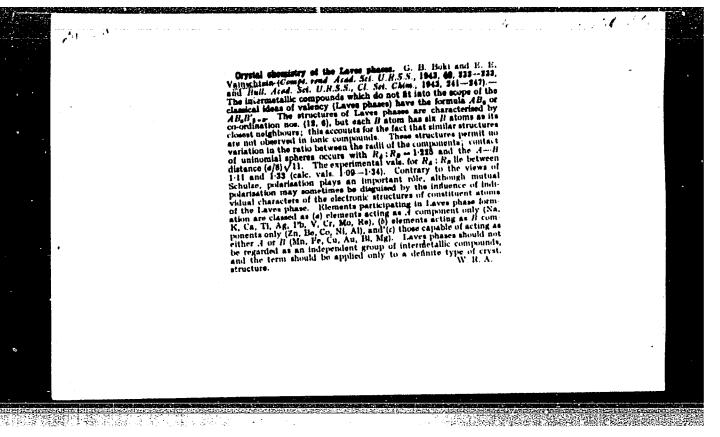


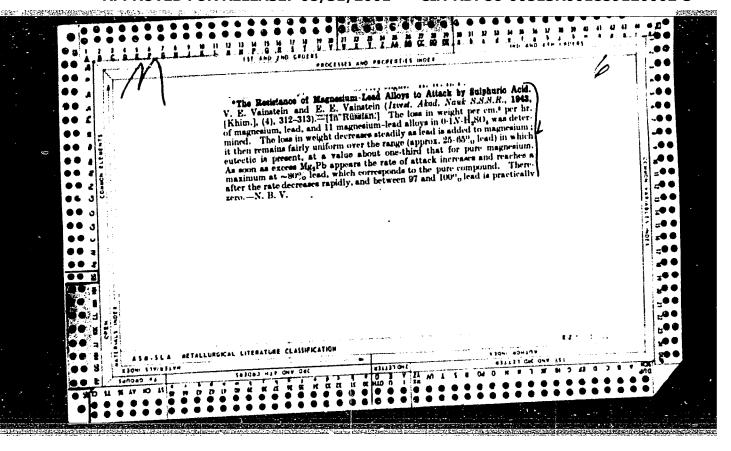


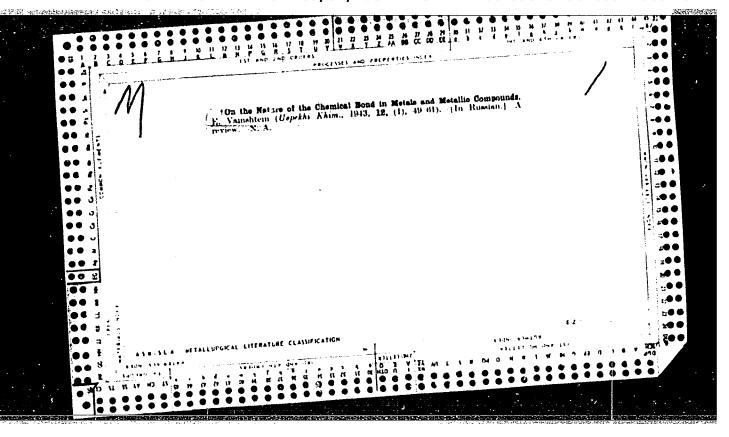


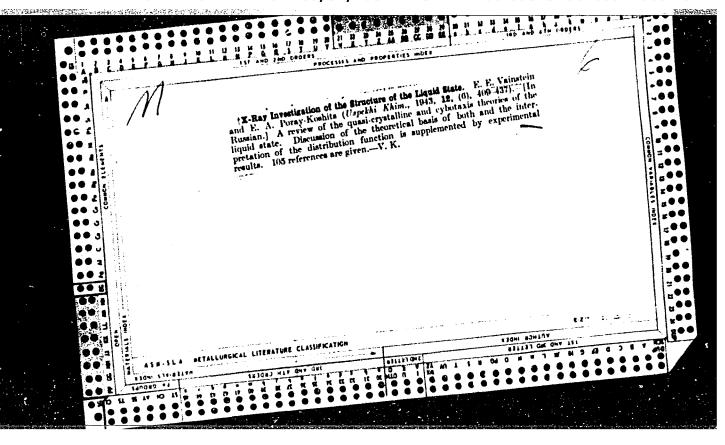


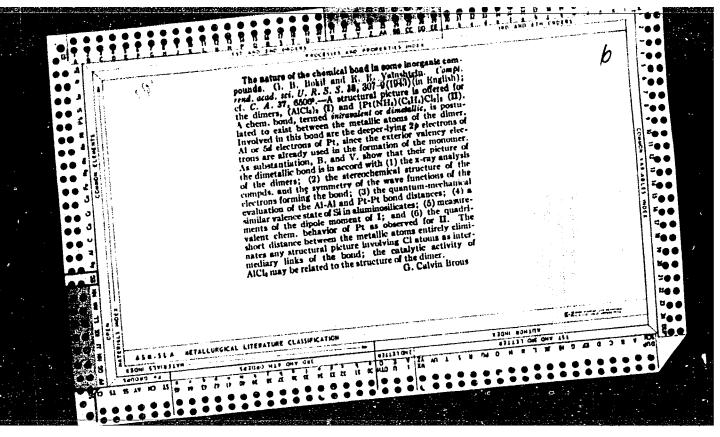


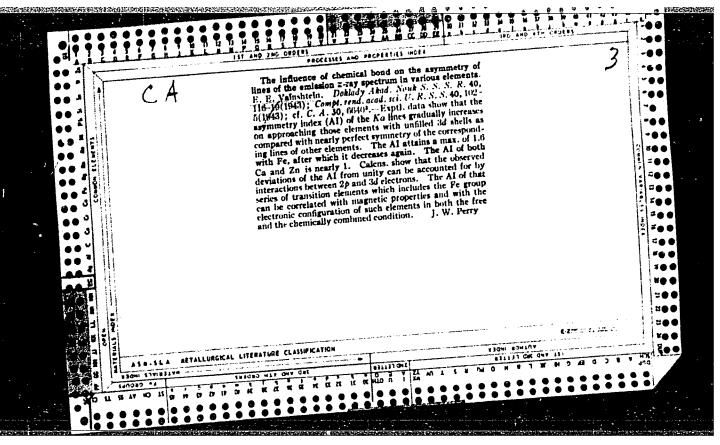


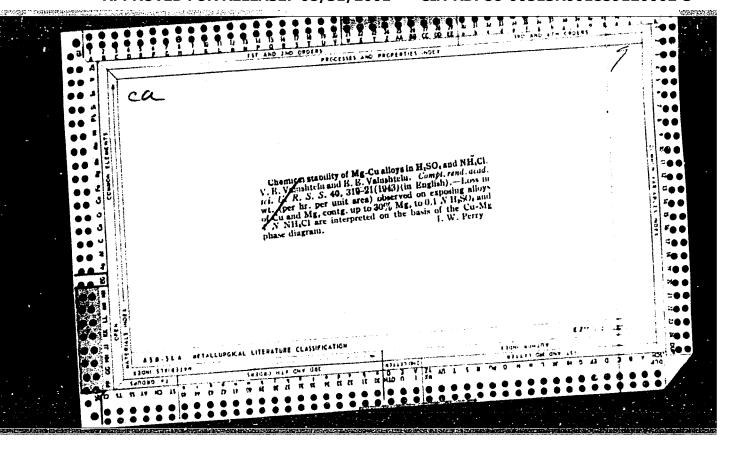


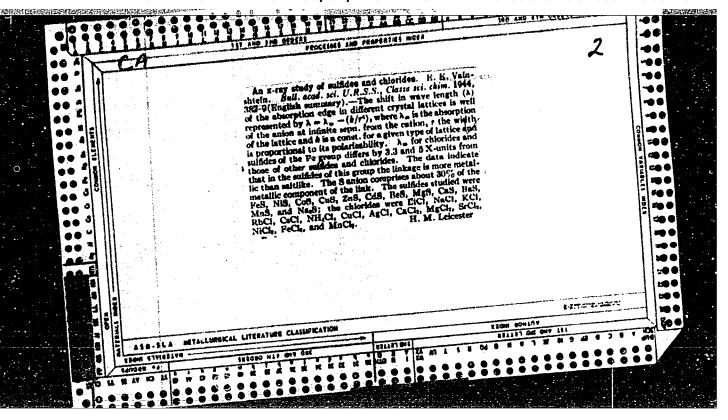


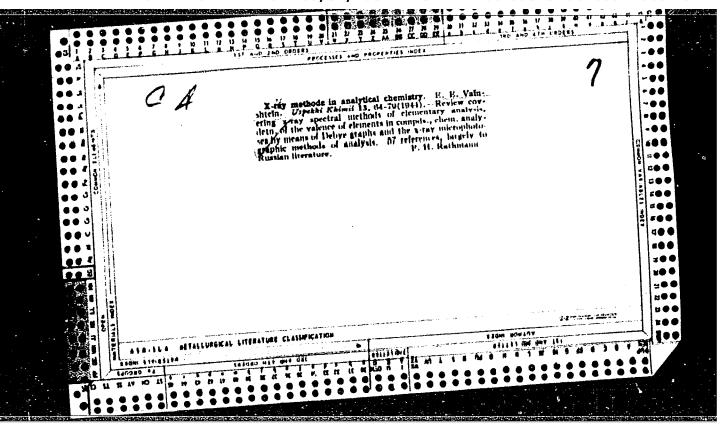


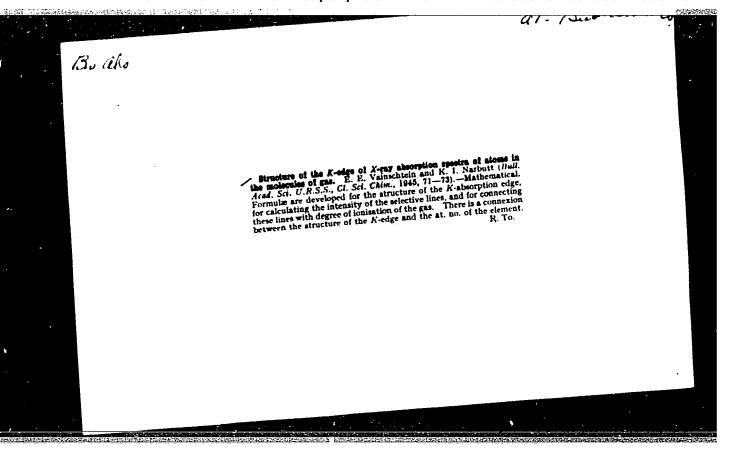








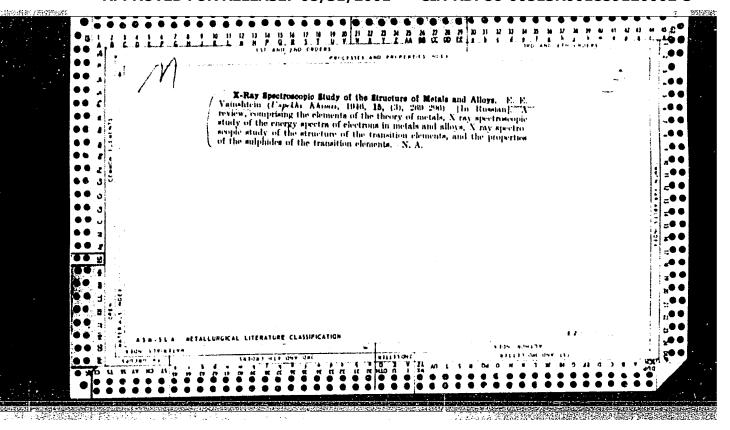




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"Dispersion of Thermal Neutrons in Metals," E. Ye. "Priroda" No 7 Author gives a brief summary of the work which was undertaken by various American scientists after Whitaker and Beyer disclosed the fact that there is a relativable in private all dimensions of the solid bodies. He gives a brief description of the results of X-ray and electromographic observations which were conducted on the dispersion of neutrons in metals. DUSSED/Factor Physics - Neutrons, Jul 1946 Macars the scientists mentioned are Nix, Dunning, and Clement.	WAYNOUTON	F. YE.			PA 34T65
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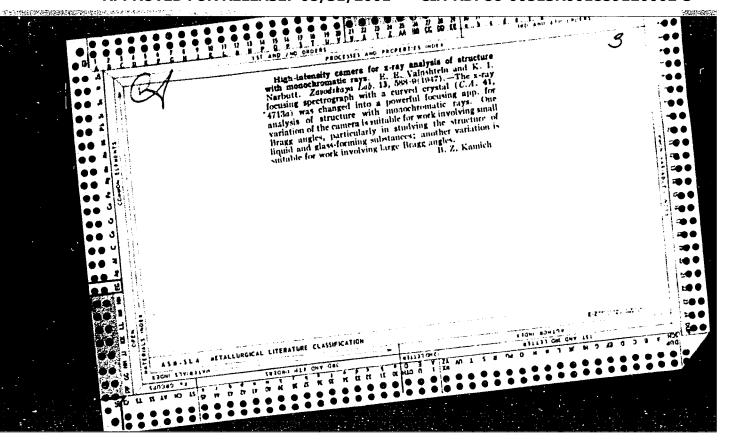
X-rays - Application

"A New Type of X-ray Focusing Spectrograph with a Curved Crystal," E.F. Veynshteyn, K.I. Narbutt, Laboratory of Geochemical Problems and X-ray Chemical Laboratory, imeni V. I. Vernadskiy, Institute of Geological Sciences, Academy of Sciences of the USSR, 4 pp

"Comptes Rendus (Doklady)" Vol LIII, No 8

A description is given of an improved type of spectrograph obeying more closely the equation for the resulting intensity of the scattered wave in an arbitrary point of observation.

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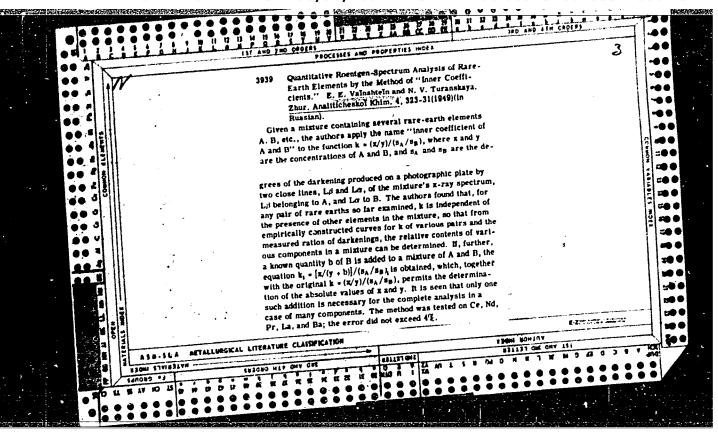
USSR/Chemistry - Rare Earths
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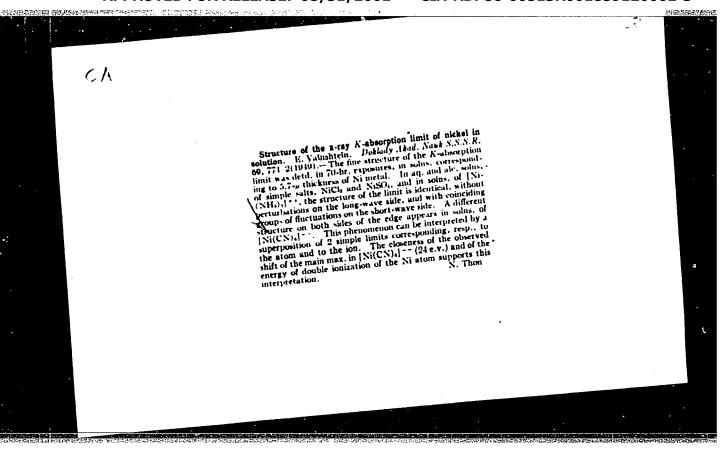
"Rare Earths and Their Position in the Natural
System of Chemical Elements," E. Ye. Vaynshteyn,
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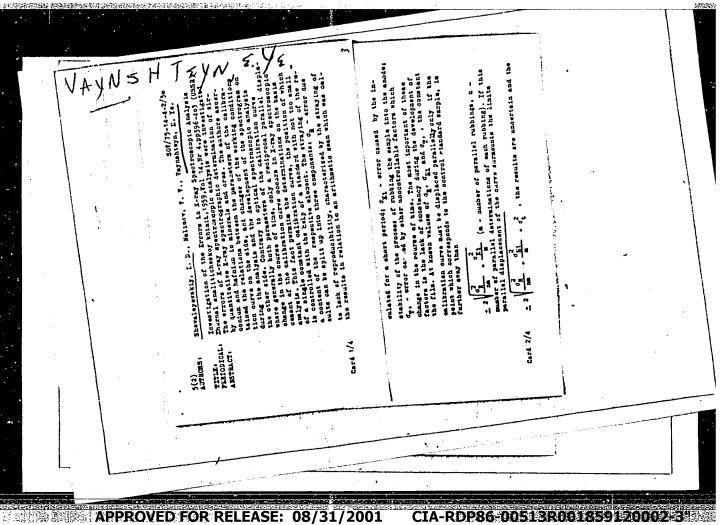
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4 24(7),24(3) AUTHORS:

Vaynahteyn, E. Ye., Kotlyar, B. I.,

30Y/20-125-1-13/67

Shapiro, G. A.

TITLE:

Investigation of the Fine Structure of K-ray Absorption Spectra of Iron in Some Antiferromagnetics and Ferrites (Issledovaniye tonkoy struktury rentgenovskikh spektrov pogloshcheniya zheleza v nekotorykh antiferromagnetikakh i ferritakh)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 55-58 (USSR)

ABSTRACT:

In the authors' opinion this is the first experimental investigation into the subject given in the title. The purpose is to clarify the direction and the magnitude of the variations in the fine structure of X-ray-K-absorption spectra of iron in antiferromagnetics and ferrites. These variations are related to those occurring in the magnetic state of the said substances. A further aim is that of finding ways for the most suitable development of these investigations. The antiferromagnetic modification of iron oxide $(\alpha\text{-Fe}_2\text{O}_3)$ and the

Card 1/4

group of ferrites Ni, Co, Mn, Sr and Zn were selected for the experiment. The authors used a focusing X-ray spectrograph

Investigation of the Fine Structure of X-ray Absorption Spectra of Iron in Some Antiferromagnetics and Ferrites 507/20-125-1-13/67

of the logann type. Some of the spectra of a-Fe₂03 and MnO.Fe203 recorded in this way are illustrated in 2 diagrams. A remarkable (almost treble for iron oxide and double for MnO.Fe,Ox) change of absorber thickness influences but very little the relative intensity of the longwave range in the absorption spectrum of iron in these compounds, leads, however, to an impoverishment in the fluctuations and to a distortion of the true ratio of their intensities at the shortwave side of the absorption limit. It was found by a similar series of experiments that the optimum density of the absorber corresponds to the density 5 mg/cm2. Two further diagrams show the group of the absorption edges of iron in various compounds and the absorption edge of iron in iron ferrite and iron oxide. The following provisional conclusions were drawn from the experimental data: 1) the wavelength of the first absorption maximum and the position of the center of the absorption edge of iron in a-Fe₂0₃ in the ferrites investigated practically do not depend on the magnetic state of the substance. In the

Card 2/4

Investigation of the Fine Structure of X-ray Absorption Spectra of Iron in Some Antiferromagnetics and Ferrites SOV/20-125-1-13/67

group of the ferrites investigated the said wavelength also does not depend on the nature of the bivalent metal. 2) The ordered distribution of the electron spins in the antiferromagnetic lowers the relative intensity of the longwave range in the absorption spectrum of the transition metal, as compared to the paramagnetic or ferromagnetic state of the substance.

3) At the shortwave side of the X-ray absorption spectra of all ferrites investigated here a more or less clearly marked fine structure was observed. 4) These conclusions are merely of a provisional nature and must therefore be substantiated by further purposive and systematic experiments. Some of these are being carried out at present in the authors' laboratory. There are 4 figures and 12 references, 5 of which are Soviet.

ASSOCIATION:

Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo Akademii nauk SSSR (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the Academy of Sciences, USSR) Odesskiy pedagogicheskiy Institut im.

Card 3/4

Investigation of the Fine Structure of X-ray Absorption Spectra of Iron in Some Antiferromagnetics and Ferrites

SOV/20-125-1-13/67

K. D. Ushinskogo (Odessa Pedagogical Institute imeni K. D.

PRESENTED:

November 19, 1958, by A. P. Vinogradov, Academician

SUBMITTED:

November 17, 1958

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CIA-RDP86-00513R001859120002-3" APPROVED FOR RELEASE: 08/31/2001

VAYNSHTEYN, E. Ye.

"X-Ray-Spectroscopic Investigation of the Structure of Solids." Thesis for degree of Dr. Physico-Mathematical Sci. Sub 27 Feb 50, Physics Inst imeni P. N. Lebedev, Acad Sci

Summary 71, 4 Sep 52, <u>Dissertations Presented</u>
for Degrees in Science and Engineering in Moscow
in 1950. From <u>Vechernyaya</u> Moskva, Jan-Dec 1950.

24(4)

SOV/1508 PHASE I BOOK EXPLOITATION

Vaynshteyn, E. Ye.

- Rentgenovskiye spektry atomov v molekulakh khimicheskikh soyedineniy i v splavakh (X-Ray Spectra of Atoms in Molecules of Chemical Compounds and In Alloys) Moscow, Izd-vo AN SSSR, 1950. 206 p. 4,000 copies printed.
- Sponsoring Agency: Akademiya nauk SSSR. Institut geokhimii i analiticheskoy khimii.
- Resp. Ed.: A.P. Vinogradov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: L.L. Razumova; Tech. Ed: N.A. Nevrayeva.
- PURPOSE: This book is intended for specialists who use the methods of X-ray spectrography for research in physics and physical chemistry.

COVERAGE: This book presents a survey of achievements in the

Card 1#

X-Ray Spectra of Atoms (Cont.)

sov/1508

field of X-ray spectroscopy as it is applied in the structural analysis of chemical compounds, metals, and alloys. A systematic review is given of Soviet and foreign experimental data. Research methods and fundamental theoretical concepts are also included. Much attention is given to transition elements, especially the iron group, due to to transition elements, especially the iron group, due to the great practical and theoretical interest in these elements. Certain difficult aspects of X-ray spectrography which belong to the larger group of theoretical and experimental problems of the so called "satellite" lines are experimental problems of the so called "satellite" lines are not included in this text. Bright prospects are seen for not included in this text. Bright prospects are seen for the application of X-ray spectrography to metallography. The author consulted the following persons: N.V. Ageyev, Corresponding Member of the AS USSR; Professors I.B. Corresponding Member of the AS USSR; Professors I.B. Borovskiy and G.B. Bokiy, and K.I. Narbutt and R.A. Borinskiy. There are 133 references, 96 of which are Soviet, 33 English, and 4 German.

TABLE OF CONTENTS:

Preface

5

3

Introduction

Card 2/7

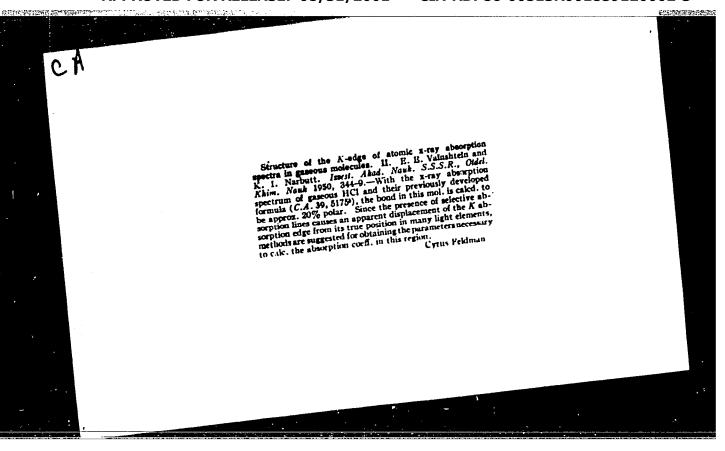
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	sov/1508	
X-Ray Spectra of Atoms (Cont.)	AND THE STRUCTURE OF SOLIDS 7	
I. X-RAY EMISSION STROTTED I. Intensity and Shape of X-Ray I. Intensity and Theory)	Emission Lines in the 8	
K and L Bellook	(1,2 lines	
2. The shape and width of t series of emission bands the first period of Mend	of elements from eleyev's [periodic]	
a) Distribution of the VE metals in the conduct:	oction	,
b) Calculation of the pr p(E) radiation transi intensity of the X-ra	obability of one	3
card 3/7		

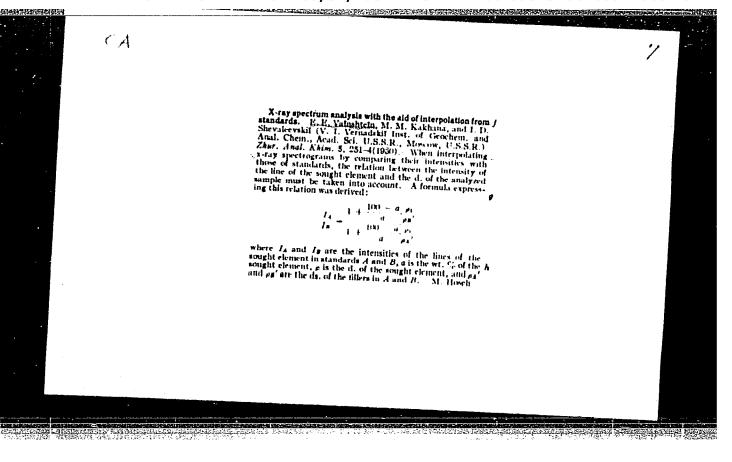
X-Ray	Spectra of Atoms (Cont.) SOV/1508	
	Experimental Study of the Shape and Structure of the K and L X-ray Emission Lines of Chemical Elements in Simplest Compounds and Alloys	36
	The shape of K and L emission lines of heavy elements in Mendeleyev's [periodic] table	36
	The shape and structure of the K and L emission lines of light elements from the first two periods of Mendeleyev's [periodic] table	39
	Experimental Study of the Shape and Structure of X-ray K Emission Lines for Atoms of Transition Elements in the Simplest Compounds and Alloys	50
1.	Use of equipment	50
2.	Possible sources of error, accuracy, and method of measuring spectrograms	53
3.	The form of K 1.2 X-ray lines of atoms of transition elements in metals and the simplest chemical compounds	
Card 4/	-	61

	4 20	
V .Pov	Spectra of Atoms (Cont.)	
x-11aj		
4.	The form of K- X-ray lines of copper and nickel atoms in alloys of the nickel-copper	72
	mer at AM	
5.	in allows of the matter	80
	realing in the	÷
6.	X_ray spectrum	84
	and alloys	•
7.	and nicker acoms in the	87
8.	The intensity of the K\$5 bands of nickel and copper atoms in alloys of the nickel-copper	96
	system	
Card	5/7	
Caru	2/ (

国际中国的国际中国的特别的 。	
sov/1508	
. X-Ray Spectra of Atoms (Cont.) IIX-RAY ABSORPTION SPECTRA AND THE STRUCTURE OF MATTER	102
1. Absorption of X-rays by atoms in gas molecules	106
and in composition of	106
Kronig, format the theory of	125
c) Structure of the X-ray absorption spectra	129
edge of atoms of light elements	139
2. X-ray absorption spectrals in molecules and in crystals 3. X-ray absorption spectra of atoms of transition elements in molecules (with nickel compounds as an example)	163
Card 6/7	

. X-Ray Spectra of Atoms (Cont.) SOV/1508	
4. X-ray absorption spectra of atoms in metals and alloys	172
 a) The theory of Blokhintsev and Kronig on the absorption of X-rays by metals (the theory of long-range order) 	174
b) Kostarev's theory of the absorption of X-rays by metals (the theory of short-range order)	183
c) Structure of the fundamental X-ray absorption edge for atoms of true metals and of transition elements	188
BICION Elemonos	201
Conclusion	203
Bibliography	
AVAILABLE: Library of Congress TM/rj 6-1-59	
Card 7/7	





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VAYNSHTEYS E. YE.

USSR/Physics - X-Ray Analysis

Aug 50

"Optimum Thickness of Absorbent for X-Ray Absorption Spectra," E. Ye. Vaynshteyn, Inst of Geochem and Anal Chem, Acad Sci USSR

"Zavod Lab" Vol XVI, No 8, pp 962-964

Studies problem of calculating on optimum thickness of absorbent in general form for binary alloys. Considers only investigations conducted with aid of photographic method for registering spectra, with their subsequent microphotometering.

169T89

VAYNSHTEYN, E. YE.

PA 160T103

USSR/Physics - Nickel Compounds X-Ray Spectra May 50

"Form of X-Ray Kal, 2 -Lines of Nickel Atoms in Very Simple Chemical Compounds, III," E. Ye. Vaynshteyn, Inst of Geochem and Anal Chem, Acad Sci USSR, 4 pp

"Zhur Eksper i Teoret Fiz" Vol XX, No 5

Experimentally investigates form and width of X-ray appetral Kal, 2 -lines of nickel oxides and sulfides (NiSO₄, NiO, Ni₂O₃, NiS, Ni₃S₄). Shows index of asymmetry of lines to be dependent on method of preparing oxides. Proposes new explanation of this asymmetry. Submitted 12 Nov 49.

160T103

VAYNSHTEYN, E. Ye.

PA 160T102

USSR/Physics - Nickel Alloys X-Ray Spectra May 50

"Form of the X-Ray Kal, 2 -Lines of Cu and Ni Atoms in Alloys of the System: Ni--Cu, IV," E. Ye. Vaynahteyn, Inst of Geochem and Anal Chem, Acad Sci USSR, 5 pp

"Zhur Eksper i Teoret Fiz" Vol XX, No 5

Experimentally investigates form and width of X-ray Ka_{1,2}-lines of Ni and Cu in Ni--Cu alloys. Results obtained are connected with structure of atoms in alloy lattice. Studies form of Ka_{1,2}-lines of Ni and Cu alloys in para- and ferromagnetic states. Submitted 12 Nov 49.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859120002-3

VAYNSHTEYN, E. 155T78 are different in atoms differing in degree of must unavoidably complicate the process of X-29 Oct 49. ray absorption. tion elements in metallic lattices and alloys Recent studies of form and structure of several X-ray emission lines of Ni and Cu in Ni-Cu and "Dok Ak Nauk SSSR" Vol LXX, No 1 of Atoms of Transition Elements in Metals," "Structure of the Principal K-Absorption Edge ionization. tinuous energies into free optical levels which of the atom of given type in the region of conpearing because of transitions of the K-electron tion of two (or more) individual edges, each aption edge of atoms in metal must be superposipeculiarities in behavior of atoms of transilattices of pure metals and alloys. These Ni-Al alloys show elements of transition groups imeni V. I. Vernadskiy, Acad Sci USSR, 3 pp E. Vaynshteyn, Inst of Geochem and Anal Chem USSR/Physics -USSR/Physics - Metals, Structure (Contd) in different states of ionization can exist in Submitted by Acad S. Metals, Structure Elements, Transition Structure of principal absorp-I. Vavilov Jan 50 Jan

VAYNSHTEYN, E. Ye.

USSR/Chemistry - X-Ray Spectrography Nov/Dec 51

"One Means for Eliminating Focusing Error and Increasing Radiation Intensity of the Cauchois Type Spectrograph," A. V. Pivovarov, E. Ye. Vaynshteyn, Kazakh State U; Inst of Geochem and Analyt Chemimeni V. I. Vernadskiy, Acad Sci USSR

"Zhur Analit Khim" Vol VI, No 6, pp 386, 387

Authors describe method and apparatus for bending of crystal of X-ray spectrograph which increase radiation intensity and accuracy of spectrograph. They state that same principle was used for design of new spectrograph RSK-3 of high radiation intensity.

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